

**NORTH AMERICA  
INTERNATIONAL PATENT OFFICE**

P.O. BOX 506, Merrifield, VA 22116, U.S.A.

TEL:+886-2-8923-7350

FAX: 806-498-6673

e-mail: winstonhsu@naipo.com

RECEIVED  
CENTRAL FAX CENTER

OCT 22 2004

FAX TO: LUU, AN T

Tel: (571) 272-1746

ART UNIT: 2816

Fax: (703) 872-9306

FROM: Winston Hsu, PATENT AGENT, REG. NO.: 41,526

SERIAL NO.: 09/682,303

ATTORNEY DOCKET NO.: NAUP0303USA

SUBJECT: INFORMATION DISCLOSURE STATEMENT

TOTAL PAGES: 22 PAGES (INCLUDING COVER PAGE)

Winston Hsu 2004/10/22

**WARNING !! DUPLICATE COPY !!**

Subject: Re-submission of a previous submitted fax

Dear Sir or Madam,

This fax is a re-submission of a previous submitted fax which was sent to the above identified fax number at 02:16 AM, 10/21/2004. In the previous submission process, the fax machine failed to automatically generate a fax confirmation report. The undersigned agent has no idea whether the previous submission is completed or not. In order to avoid abandonment or delay of the correspondent U.S. patent application, the undersigned agent decides to resend this fax. If you find out that the previous fax submission is completed and the current fax becomes a redundant copy of the previous submitted fax, you can ignore this fax and use the previous fax as the formal response.

Thank you very much for your help.

NAUP0303USA0\_D1\_1

PTO/SB/97 (09-04)

Approved for use through 07/31/2008, OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

**Certificate of Transmission under 37 CFR 1.8**

I hereby certify that this correspondence is being facsimile transmitted to the United States Patent and Trademark Office

on 10/21/2004  
Date

RECEIVED  
CENTRAL FAX CENTER  
OCT 22 2004

Celia Hsieh  
Signature

Celia Hsieh

Typed or printed name of person signing Certificate

Registration Number, if applicable

886-2-8923-7350

Telephone Number

Note: Each paper must have its own certificate of transmission, or this certificate must identify each submitted paper.

(1) Transmittal Form	1 PAGE
(2) Fee Transmittal	1 PAGE
(3) Information Disclosure Statement	18 PAGES

This collection of information is required by 37 CFR 1.8. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1.8 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PTO/SB/21 (09-04)  
Approved for use through 07/31/2006. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<b>TRANSMITTAL FORM</b>  (to be used for all correspondence after initial filing)	Application Number	09/682,303	
	Filing Date	08/16/2001	
	First Named Inventor	Jui-Lung Chen	
	Art Unit	2816	
	Examiner Name	LUU, AN T	
Total Number of Pages in This Submission	20	Attorney Docket Number	NAUP0303USA

ENCLOSURES (Check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/ Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input type="checkbox"/> Other Enclosure(s) (please identify below):
<div style="border: 1px solid black; height: 40px; margin-top: 5px;"></div>		
<b>SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT</b>		
Firm Name	North America Intellectual Property Corporation	
Signature	<i>Winston Hsu</i>	
Printed name	Winston Hsu	
Date	10/21/2004	Reg. No. 41,526

CERTIFICATE OF TRANSMISSION/MAILING		
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:		
Signature		
Typed or printed name		Date

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PTO/SB/17 (10-04)

Approved for use through 07/31/2006. OMB 0651-0032  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**FEE TRANSMITTAL**  
**for FY 2005**

Effective 10/01/2004. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27**TOTAL AMOUNT OF PAYMENT** (\$ ) 180.00**Complete If Known**

Application Number	09/682,303
Filing Date	08/16/2001
First Named Inventor	Jui-Lung Chen
Examiner Name	LUU, AN T
Art Unit	2816
Attorney Docket No.	NAUP0303USA

**METHOD OF PAYMENT (check all that apply)**☐ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None☒ Deposit Account:

Deposit Account Number	50-3105
Deposit Account Name	North America Intellectual Property Corp.

The Director is authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☒ Credit any overpayments☒ Charge any additional fee(s) or any underpayment of fee(s)☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.**FEE CALCULATION****1. BASIC FILING FEE**

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1001	790	2001	395	Utility filing fee	
1002	350	2002	175	Design filing fee	
1003	550	2003	275	Plant filing fee	
1004	790	2004	395	Reissue filing fee	
1005	180	2005	80	Provisional filing fee	
<b>SUBTOTAL (1)</b>					<b>(\$ ) 0.00</b>

**2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE**

Total Claims	Extra Claims	Fee from below	Fee Paid
Independent	-20** =	X	
Multiple Dependent	-3** =	X	

Large Entity		Small Entity		Fee Description
Fee Code	Fee (\$)	Fee Code	Fee (\$)	
1202	18	2202	9	Claims in excess of 20
1201	88	2201	44	Independent claims in excess of 3
1203	300	2203	150	Multiple dependent claim, if not paid
1204	88	2204	44	** Reissue independent claims over original patent
1205	18	2205	9	** Reissue claims in excess of 20 and over original patent

\*\*or number previously paid, if greater; For Reissues, see above

**FEE CALCULATION (continued)****3. ADDITIONAL FEES**

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	
1053	130	1053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for ex parte reexamination	
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
1251	110	2251	55	Extension for reply within first month	
1252	430	2252	215	Extension for reply within second month	
1253	880	2253	490	Extension for reply within third month	
1254	1,530	2254	765	Extension for reply within fourth month	
1255	2,080	2255	1,040	Extension for reply within fifth month	
1401	340	2401	170	Notice of Appeal	
1402	340	2402	170	Filing a brief in support of an appeal	
1403	300	2403	150	Request for oral hearing	
1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive - unavoidable	
1453	1,330	2453	665	Petition to revive - unintentional	
1501	1,370	2501	685	Utility issue fee (or reissue)	
1502	490	2502	245	Design issue fee	
1503	660	2503	330	Plant issue fee	
1460	130	1460	130	Petitions to the Commissioner	
1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
1806	180	1806	180	Submission of Information Disclosure Stmt	180
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
1809	790	2809	395	Filing a submission after final rejection (37 CFR 1.129(a))	
1810	790	2810	395	For each additional invention to be examined (37 CFR 1.129(b))	
1801	790	2801	395	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	

Other fee (specify)

\*Reduced by Basic Filing Fee Paid

**SUBTOTAL (3)** (\$ ) 180.00**SUBMITTED BY**

Name (Print/Type)	Winston Hsu	Registration No. (Attorney/Agent)	41,526	Telephone	886-2-89237350
Signature	<i>Winston Hsu</i>	Date	10/21/2004		

**WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.**

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PTO/SB/08A (08-03n)

Approved for use through 07/31/2008. OMB 0661-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	1	of	1
-------	---	----	---

**Complete if Known**

Application Number	09/682,303
Filing Date	08/16/2001
First Named Inventor	Jui-Lung Chen
Art Unit	2816
Examiner Name	LUU, AN T
Attorney Docket Number	NAUP0303USA

## U. S. PATENT DOCUMENTS

[illegible]

**FOREIGN PATENT DOCUMENTS**

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>2</sup>
		Country Code* Number* Kind Code* (if known)				
	1	JP 199813219A	01-16-1998	Ishii Susumu		+

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

**If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.**

PATENT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicants: Jui-Lung Chen Shih-Huang Huang  
5 Examiner: An T. Luu  
Filing Date: 08/16/2001 Art Unit: 2816  
App. No.: 09/682,303 Docket No.: NAUP0303USA  
10 Title: DELAY LOCK CIRCUIT USING BISECTION ALGORITHM AND  
RELATED METHOD

To: Commissioner of Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

RECEIVED  
CENTRAL FAX CENTER  
OCT 22 2004

15 Subject: Information disclosure statement Under  
37C.F.R.\$1.56 and 37C.F.R.\$1.97(d).

20 Dear Sir or Madame:

This is an Information Disclosure Statement in accordance  
with the duty to disclose information material to  
25 patentability under 37 C.F.R. \$1.56. Applicants wish to make  
of record the document listed on the accompanying form  
PTO/SB/08. It is respectfully requested that the Examiner  
initial the cited references on the form and that it be made  
of record in the application and that a copy of the initialed  
30 form be sent to Applicants with the next communication from  
the Examiner.

Since the IDS is filed after the mailing date of a notice of allowance, and on or before a payment of the issue fee, the requirement set forth in §1.97(d) is satisfied. Items of information contained in the information disclosure statement  
5 were cited in communication from PRC Patent Office on 07/25/2004 for a counterpart foreign application.

The cited reference, JP publication number No. H10-13219, teaches a DLL circuit. As shown in Fig.1, the block  
10 diagram discloses a configuration of the cited art DLL circuit 14. The DLL circuit 14 comprises a phase detector 11 for comparing the phase difference between the external clock signal 6 and the internal clock signal 7, a control signal generating circuit 13 for generating a control signal  
15 according to the comparison results 8-1, 8-2, 9-1, 9-2, and 10 of the phase detector 11, a plurality of delay units 3 for delaying the external clock signal 6, a multiplexer 4 for selecting a certain number of the delay units 3 according to the control signal outputted from the control signal  
20 generating circuit 13, and a clock driver 5 for generating the internal clock signal 7 according to the selected delay units. A delay unit 3 is a smallest unit, which delays the external clock signal 6. Since the control signal generating circuit 13 is capable of determining a total number of used  
25 delay unit 3 according to a comparison result generated from the phase detector 11, it transmits the control signal to the multiplexer 4 for driving the multiplexer 4 to select the required delay units 3.

30 Independent Claim 11 of the present invention, listed in the response to the Office action dated 06/03/2004, is repeated here for reference.

11. A delay lock circuit for generating a second clock according to a first clock and synchronizing the first clock and the second clock, the delay lock circuit comprising:

5 a comparator for determining if corresponding periods of the first clock and the second clock are synchronized and generating a corresponding comparison signal;

10 a delayer electrically connected to the comparator for delaying the first clock so as to change a delay time between the corresponding periods of the first clock and the second clock; and

a controller to control the delay lock circuit; wherein the controller uses the delayer to perform a

15 correcting process to increase or decrease the delay time between the corresponding periods of the first clock and the second clock by a correction interval, wherein a subsequent correction interval of a subsequent correcting process is less than a previous correction interval of a previous correcting process, and the controller

20 terminates the correcting process if the correction interval is smaller than a predetermined value.

However, the cited reference fails to teach or suggest

25 that "a subsequent correction interval of a subsequent correcting process is less than a previous correction interval of a previous correcting process." Based on the above difference, it is believed that claim 11 is substantially different from the cited reference. And claims 12-14 are

30 dependent on claim 11, they are believed to be substantially different from the cited reference.



Independent Claim 16 of the present invention, listed in the response to the Office action dated 06/03/2004, is repeated here for reference.

- 5 16. A method for performing a delay lock to generate a second clock according to a first clock and to synchronize the second clock with the first clock, the method comprising:  
executing a plurality of correcting processes, each of  
which increases or decreases by a respective  
10 correction interval a respective delay time between corresponding periods of the first clock and the second clock; and  
terminating the plurality of correcting processes when  
the correction interval is smaller than a  
15 predetermined value;  
wherein a subsequent correction interval for a subsequent correcting process is less than a previous correction interval of a previous correcting process.
- 20 Similarly, as mentioned above, the cited reference fails to teach or suggest that **"a subsequent correction interval of a subsequent correcting process is less than a previous correction interval of a previous correcting process."** Based on the above difference, it is believed that claim 16 is  
25 substantially different from the cited reference. And claims 17-24 are dependent on claim 16, they are believed to be substantially different from the cited reference.

Sincerely yours,

5 Winston Hsu

Date: October 21, 2004

Winston Hsu, Patent Agent No. 41,526

P.O. BOX 506

Merrifield, VA 22116

U.S.A.

10 Facsimile: 806-498-6673

e-mail : winstonhsu@naipo.com

(Please contact me by e-mail if you need a telephone  
communication and I will return your call promptly.)